

User's Manual



IN3254 **RGBHV Distribution Amplifier**

68-1015-01 **Rev. B**
02 08

Precautions

Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment.

Retain Instructions • The safety instructions should be kept for future reference.

Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).



Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

Lire les instructions • Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.

Conservier les instructions • Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.

Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présents dans la documentation utilisateur.

Eviter les pièces de fixation • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch



Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.



Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits- und Bedienungsanleitungen genau durchlesen und verstehen.

Aufbewahren der Anleitungen • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.

Befolgen der Warnhinweise • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.

Keine Zusatzgeräte • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.



Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaución

Leer las instrucciones • Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.

Conservar las instrucciones • Conservar las instrucciones de seguridad para futura consulta.

Obedecer las advertencias • Todas las advertencias e instrucciones marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.

Evitar el uso de accesorios • No usar herramientas o accesorios que no sean específicamente recomendados por el fabricante, ya que podrían implicar riesgos.

Warning

Power sources • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

Power disconnection • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).

Power cord protection • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.

Servicing • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Avvertimento

Alimentazioni • Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec un alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité: n'essayez pas de le contourner ni de le désactiver.

Déconnexion de l'alimentation • Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.

Protection du cordon d'alimentation • Achémener les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.

Réparation-maintenance • Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.

Fentes et orifices • Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.

Lithium Batterie • Il a danger d'explosion s'il y a un remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Vorsicht

Stromquellen • Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdschluß, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.

Stromunterbrechung • Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stromversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.

Schutz des Netzkabels • Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dahingestellt werden können.

Wartung • Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder anderer Gefahren bestehen.

Schlitze und Öffnungen • Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.

Lithium-Batterie • Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

Alimentación eléctrica • Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearla ni eliminarla.

Desconexión de alimentación eléctrica • Para desconectar con seguridad la alimentación de alimentación eléctrica al equipo, desconectar todos los cables de alimentación en el panel trasero del equipo, o desconectar el módulo de alimentación (si fuera independiente), o desconectar el cable del receptáculo de la pared.

Protección de los cables de alimentación • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.

Reparaciones/mantenimiento • Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario debe acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.

Ranuras y aberturas • Si el equipo posee ranuras o orificios en su caja/altoaviento, es para evitar el sobrecalentamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.

Batería de litio • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Deschar las baterías usadas siguiendo las instrucciones del fabricante.

安全须知 • 中文



这个符号提示用户该设备用户手册中有重要的操作和维护说明。



这个符号警告用户该设备机壳内有暴露的危险电压，有触电危险。

注意

阅读说明书 • 用户使用该设备前必须阅读并理解所有安全和使用说明。

保存说明书 • 用户应保存安全说明书以备将来使用。

遵守警告 • 用户应遵守产品和用户指南上的所有安全和操作说明。

避免追加 • 不要使用该产品厂商没有推荐的工具或追加设备，以避免危险。

警告

电源 • 该设备只能使用产品上标明的电源。设备必须使用有地线的供电系统供电。第三条线（地线）是安全设施，不能不用或跳过。

拔掉电源 • 为安全地从设备拔掉电源，请拔掉所有设备后或桌面电源的电源线，或任何接到市电系统的电源线。

电源线保护 • 妥善布线，避免被踩踏，或重物挤压。

维护 • 所有维修必须由认证的维修人员进行。设备内部没有用户可以更换的零件。为避免出现触电危险不要自己试图打开设备盖子维修该设备。

通风孔 • 有些设备机壳上有通风槽或孔，它们是用来防止机内敏感元件过热。不要用任何东西挡住通风孔。

锂电池 • 不正确的更换电池会有爆炸的危险。必须使用与厂家推荐的相同或相近型号的电池。按照生产厂的建议处理废弃电池。

声明

所使用电源为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

NOTE

This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance with FCC emissions limits.

Table of Contents

Chapter One • Introduction	1-1
About this Manual	1-2
About the IN3254 Distribution Amplifier	1-2
Features	1-2
Installation	1-3
Rack mounting	1-3
UL requirements for rack mounting.....	1-3
Connections and Controls.....	1-5
Input and output connections	1-6
Operation and Troubleshooting	1-7
 Appendix A • Specifications, Part Numbers, and Accessories	 A-1
Specifications	A-2
Included Parts	A-4
Optional Accessories	A-4
Bulk Cables.....	A-4
Bulk Connectors	A-5

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IN3254

1

Chapter One

Introduction

About this Manual

About the IN3254 Distribution Amplifier

Features

Installation

Connections and Controls

Operation and Troubleshooting

Introduction

About this Manual

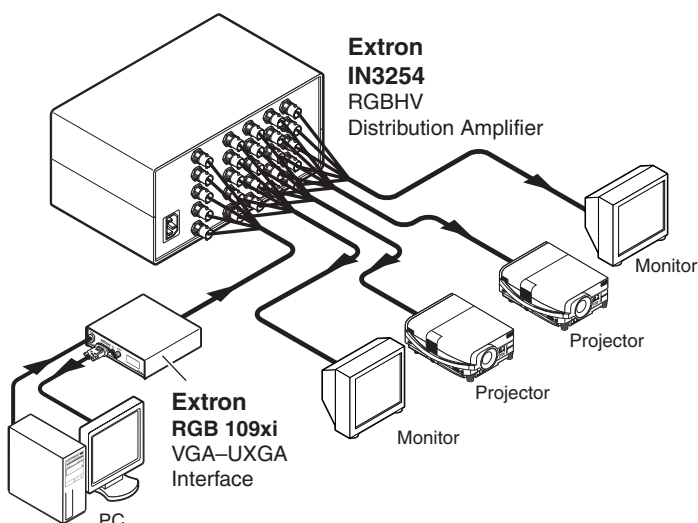
This manual describes the function and installation of the Extron IN3254 Distribution Amplifier (DA).

About the IN3254 Distribution Amplifier

The Extron IN3254 is a high performance RGBHV distribution amplifier. This DA includes one input and four outputs on BNC connectors. It features a two-position gain switch that affects the output level on all RGB channels, and compensates for signal level loss that occurs over long cable runs. There is also a two-position sync level selector.

The IN3254 offers flexible video distribution/line driving capabilities to suit a wide variety of applications including boardrooms, training facilities, home theater, command and control centers, and rental and staging environments.

The IN3254 is powered by an internal power supply.



Features

400 MHz (-3 dB) video bandwidth — Provides outstanding video performance.

Wide compatibility — Compatible with RGBHV, RGBS, RGsB, RsGsBs, tri-level sync component video (HDTV), bi-level sync component video, S-video, as well as high resolution monochrome video and composite video baseband signals.

Power LED — A green LED lights to verify that the DA is receiving power.

Sync Level — An internal sync level control provides precise adjustment of the sync portion of the video with the sync signal.

Installation

The IN3254 can mounted in a convenient location using the Extron universal 2U rack shelf (Extron part# **60-032-01**).

1. Turn all equipment off and ensure that the source device, the DA, and the output devices have been disconnected from the power source.
2. Place or install the unit in the desired location.
3. Connect the video signal source (input) device to the input connectors.
4. Connect the output devices to the output connectors.
5. Apply power to the output device(s), the DA, and the input device.
6. Set the gain and sync as needed.

Rack mounting

UL requirements for rack mounting

The following Underwriters Laboratories (UL) requirements pertain to the installation of an IN3254 DA onto a rack.

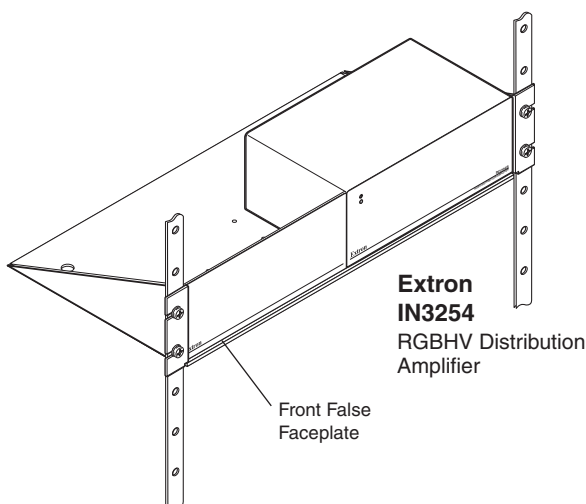
1. **Elevated operating ambient** — If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consider installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer [$T_{ma} = +32$ to $+122$ °F (0 to $+50$ °C)].
2. **Reduced air flow** — Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
3. **Mechanical loading** — Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
4. **Circuit overloading** — Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Introduction, cont'd

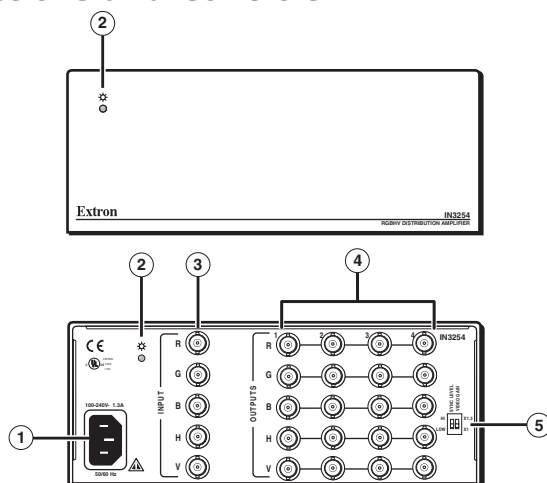
5. **Reliable earthing (grounding)** — Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (such as the use of power strips).

Rack mount the unit using an optional Extron 2U universal rack shelf (Extron part #60-032-01), as follows:

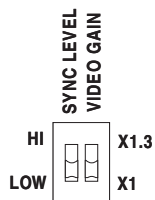
1. Remove rubber feet if they were previously installed on the bottom of the unit.
2. Place the DA on one side of the optional 2U (two unit high, 19" wide) rack shelf (Extron part #60-032-01). Align the front of the DA with the front of the shelf, and align the threaded holes on the bottom of the DA with the holes in the rack shelf.
3. Secure the DA to the rack shelf with the two provided 4-40 x 3/16" machine screws. Insert the screws from the underside of the shelf, and securely fasten them through diagonally opposite corners.
4. Fasten the false front panel (provided with the rack shelf) to the unoccupied side of the rack (as shown below), or install a second half-rack-width device in that side by repeating steps 1 through 3.
5. Secure the rack shelf to the rack using four 10-32 x 3/4" bolts. Insert the bolts through #10 beveled washers, then through the holes in the mounting brackets.



Connections and Controls



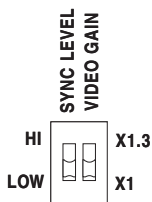
- ① **Power connector** — Plug the external power supply cord into this connector.
- ② **Power LED** — A green LED lights to indicate that the IN3204B is receiving power.
- ③ **Video input connectors** — Connect an RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, or composite video device to these female BNC connectors.
- ④ **Video output connectors** — Connect up to four RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, high resolution monochrome video, or composite video output devices, such as data projectors or data monitors, to these female BNC connectors.
- ⑤ **DIP switches** — This 2-bank DIP switch allows selection of high and low video gain and sync level.



Video Gain: Set this switch to high or low while viewing the displayed image to set the level that provides the best picture quality.

X1.3 — Applies gain for long cable runs, up to 200' (61 m) using Extron Mini HR cable.

X1 — Eliminates gain for short cable runs.



Sync Level: Set this switch to adjust the sync portion of the video with the sync signal.

HI — Applies 5 volts peak-to-peak.

LOW — Applies 3 volts peak-to-peak.

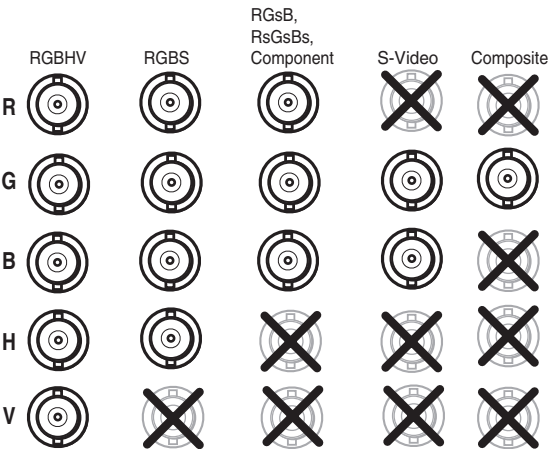
NOTE *Adjustments apply to all four outputs.*

Input and output connections

RGB and component video inputs — Connect an RGBHV, RGBS, RGsB, RsGsBs component video, S-video, composite video source to these BNC connectors.

RGB and component video outputs — Connect RGB or component video displays or other devices to these BNC connectors for each video output.

Connect the cables for the desired input or output signal, as shown below.



NOTE *When making connections, ensure that inputs and outputs are using the same signal (e.g., S-video BNCs are connected on both input and output connectors).*

Operation and Troubleshooting

Connect the power cords and turn on the displays (projectors or monitors), the DA, and the input device (computer). The image should appear on the screens.

If the image does not appear or is not displayed correctly:

1. Ensure that all devices are plugged in.
2. Make sure that each device is receiving power. The DA's front and rear panel power LEDs indicate if the DA is receiving power.
3. Check the cabling and make adjustments as needed.
4. Call the Extron S³ Sales & Technical Support Hotline if necessary.



IN3254

Appendix A

Specifications, Part Numbers, and Accessories

Specifications

Included Parts

Optional Accessories

Bulk Cables

Bulk Connectors

Specifications, Part Numbers, and Accessories

Specifications

Video

Gain	0 dB or +2 dB (x1.0 or x1.3), switch selectable
Bandwidth	400 MHz (-3 dB), fully loaded

Video input

Number/signal type.....	1 RGBHV, RGBS, RGsB, RsGsBs, component video (bi-level sync or tri-level sync for HDTV), or S-video; <i>or</i> up to 3 composite video
Connectors	5 female BNC
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	Analog
With switch set to x1	0.3 V to 1.0 Vp-p with no offset
With switch set to x1.3.....	0.3 V to 0.75 Vp-p
Impedance	75 ohms
Horizontal frequency.....	15 kHz to 115 kHz
Vertical frequency.....	30 Hz to 120 Hz
Return loss	<-40 dB @ 5 MHz

Video output

Number/signal type.....	4 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video; or up to 12 composite video
Connectors	4 x 5 female BNC
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video, and for C of S-video
Minimum/maximum levels.....	Analog: 0.3 V to 1.0 Vp-p
Impedance	75 ohms
Return loss	<-40 dB @ 5 MHz
DC offset.....	100 mV with input at 0 offset

Sync

Input/output type	RGBHV, RGBS, RGsB, RsGsBs
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	1.8 V to 5.0 Vp-p
Output level (analog/TTL).....	5.0 Vp-p, unterminated

Input impedance	510 ohms
Output impedance	50 ohms
Max input voltage	5.0 Vp-p
Max. propagation delay	H: 50 ns V: 110 ns
Max. rise/fall time	H: 15 ns V: 20 ns
Polarity.....	Positive or negative (follows input)

General

Power	100 VAC to 240 VAC, 50/60 Hz, 6 watts, internal, autoswitchable
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount.....	Yes, with optional rack shelf
Enclosure type	Metal
Enclosure dimensions.....	3.4" H x 8.5" W x 4.4" D (2U high, half rack wide) 8.6 cm H x 21.6 cm W x 11.2 cm D (Depth includes connectors.)
Product weight	3.6 lbs (1.6 kg)
Shipping weight.....	6 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings.....	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.....	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at $\pm 10\%$.*

NOTE *Specifications are subject to change without notice.*

(7.51-020705-D3)

Specifications, Part Numbers, and Accessories

Included Parts

Description	Part Number
IN3254 Distribution Amplifier	60-723-01
IN3254 User's Manual	
Black rubber feet (4)	
IEC power cord	

Optional Accessories

Description	Part number
RSU 249 2U universal rack shelf kit	60-032-01
S-video male to 2 BNC female adapter	26-353-01
BNC female to RCA male adapter (10)	100-226-01

Bulk Cables

Description	Part number
BNC-4 Mini HR bulk, 500'	22-032-02
BNC-4 Mini HR bulk, 100'	22-032-03
BNC-5 Mini HR bulk, 500'	22-020-02
BNC-5 Mini HR bulk, 1000'	22-020-03
Mini 59 Superflex-5 cable, 500'	22-127-02
RG59/HR-1 cable, 500'	22-145-02
RG59/HR-1 cable, 1000'	22-145-03
Plenum RG59/HR-1 cable, 500'	22-146-02
Plenum RG59/HR-1 cable, 1000'	22-146-03
RG6/SHR-1 cable, 1000'	22-098-02
RG6/SHR-1 cable, 1000'	22-098-03
RG6/SHR-5 bulk, 500'	22-100-02

Bulk Connectors

Description	Part number
Mini HR crimip BNC, qty. 50	100-250-01
Mini HR compression BNC, qty. 50	100-186-01
Mini 59 crimp BNC, qty. 50	100-263-01
Mini 59 compression BNC, qty. 50	100-187-01
RG59/HR crimp BNC, qty. 50	100-257-01
RG59/HR compression BNC, qty. 50	100-189-01
RG6/SHR crimp BNC, qty. 50	100-260-01
RG6/SHR compression BNC, qty. 50	100-188-01
RG59/HR compression connectors for plenum cable, qty. 50	100-189-01

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
and Central America:**

Extron Electronics
1001 East Ball Road
Anaheim, CA 92805, USA

Europe, Africa, and the Middle East:

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands

Asia:

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363

Japan:

Extron Electronics, Japan
Kyodo Building
16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.6383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.



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